

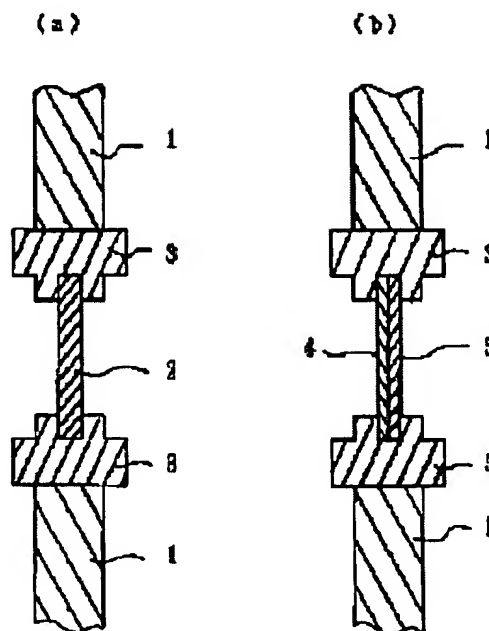
# WINDOW MEMBER FOR PLAZMA PROCESSING UNIT

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## Abstract of JP11214194

**PROBLEM TO BE SOLVED:** To elongate the life without deteriorating light transmittivity caused by the surface corrosion by the plazma, while comprising the function as a window for light transmittivity by forming a window member by a light transmitting yttrium-aluminium-garnet sintered body (light transmitting YAG sintered body) having a specific thickness.

**SOLUTION:** A window member 2 is mounted on a side wall 1 by a support member 1. The window member 2 is formed by a light transmitting YAG sintered body. It is necessary that the thickness of the light transmitting YAG sintered body is 0.5-10.0 mm. When the thickness is less than 0.5 mm, the mechanical strength is not enough to a plazma processing unit of which the inside is in vacuum. When the thickness is more than 10.0 mm, the light transmittivity becomes less than 50%/mm, and the light transmittivity is lowered to be insufficient for the practical use. Whereby the window member superior in the durability to the plazma or the like, having the long life in comparison with quartz and sapphire materials, and free from deterioration can be provided.



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